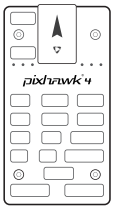
pixhawk® 4

The most advanced development kit for the PX4 autopilot

Holybro

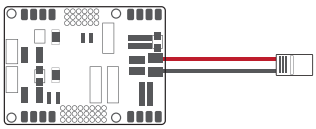
IN THE BOX

Pixhawk 4 autopilot

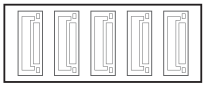


GPS module
with safety switch and LED

Power board



I2C splitter



6 to 6 pin cable (power) x 3

4 to 4 pin cable (CAN) x 2

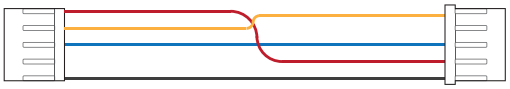
6 to 4 pin cable (Data)

10 to 10 pin cable (PWM) x 2

8 to 8 pin cable (AUX)

PPM/SBUS out cable

XSR receiver cable



DSMX receiver cable

SBUS receiver cable

USB Cable

MOUNT

Use the provided foam pads to mount Pixhawk 4 as close as possible to your vehicle's center of gravity. Make sure to orient the board with the arrow pointing forward.

CONNECT

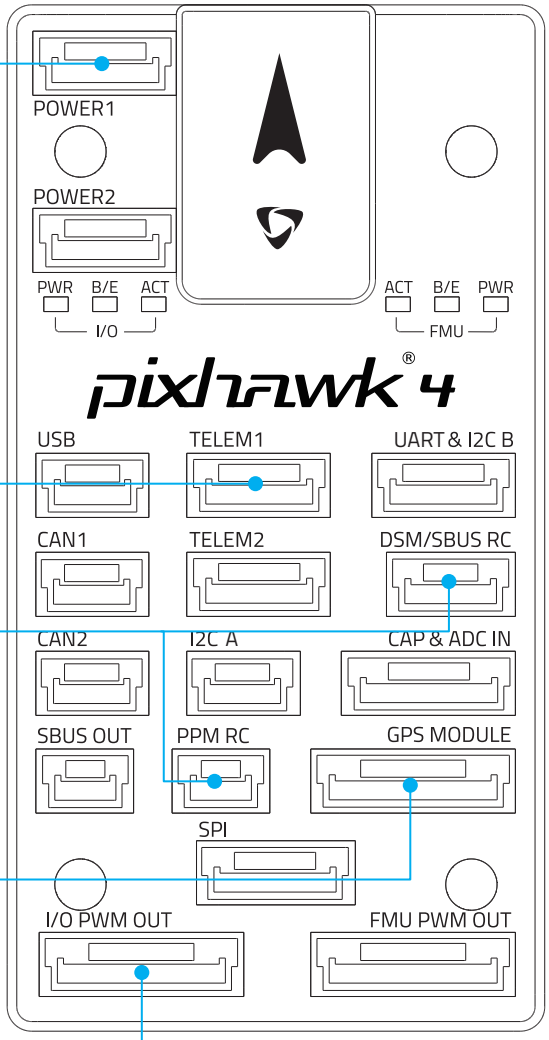
Connect the Power Management Board to the Power port using the 6-wire cable to direct power from your lithium polymer (LiPo) battery to the autopilot.

(Optional) Connect a Telemetry Radio to the TELEM port to receive data in Ground Control Station and communicate with the autopilot in flight.

Connect PPM, DSM or SBUS Radio Control receiver to provide the autopilot with RC input in manual and assisted flights modes.

Connect the provided GPS module (with integrated magnetometer, safety switch and buzzer) to provide the autopilot with positioning data during flight.

Connect I/O PWM-IN port of the Power Management Board to the I/O PWM OUT of Pixhawk4 using the 10 wire cable to send PWM signals to the motors.



Connect the PMB to the POWER port using the 6-wire cable to direct power from your lithium polymer (LiPo) battery to the autopilot.
(Optional) Connect a Telemetry Radio to the TELEM port to receive data in Ground Control Station and communicate with the autopilot in flight.
Connect I/O PWM-IN port of the PMB to the I/O PWM OUT of Pixhawk 4 using the 10 wire cable to send PWM signals to the motors.
Connect PPM, DSM or SBUS Radio Control receiver to provide the autopilot with RC inputin manual and assisted flights modes.
Connect the GPS module to provide the autopilot with positioning data during flight.

For more details on how to connect Power Management Board(PMB) with Pixhawk 4 and the motors, refer to PX4 User Guide:
https://docs.px4.io/en/assembly/quick_start_pixhawk4.html

SET UP

The PX4 firmware is the brains of your autopilot operation and Version 1.7 is already loaded on your Pixhawk 4.

To configure your vehicle as well as do mission planning and flight monitoring, you can use the free QGroundControl application (Windows, Mac, Linux), which you can download from http://qgroundcontrol.com/

Once you have installed and successfully run QGroundControl, plug in Pixhawk 4 with the supplied USB cable, it should be automatically recognized. Click on and follow the on-screen instructions to finish the setup steps.

As part of a first time setup, you'll need to configure some of the required hardware components, such as:

- Frame type configuration
- Compass calibration
- Radio control calibration
- Accelerometer calibration
- RC transmitter mode setup
- ESC calibration

In addition to mandatory calibrations, you may also choose to configure optional hardware including battery monitor, sonar, airspeed sensor, optical flow, OSD, camera gimbal, antenna tracker etc.

ADDITIONAL INFORMATION

Refer to pixhawk.org for detailed pin-outs of Pixhawk 4 connectors.

Visit PX4 user guide at px4.io for detailed instructions including tutorials on how to change firmware and do advanced configurations with QGroundControl.

Join PX4 Slack (http://slack.px4.io/) to receive support from the community and the PX4 team.

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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